

Ready, Set, Go!

Ready

Topic: Substitution



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Evaluate the following expressions for $a = -3$, $b = 2$, $c = 5$, and $d = -4$.

1. $2a + 3b$

2. $4c + d$

3. $5ac - 2b$

4. $\frac{2a}{c-d}$

5. $\frac{3b}{d}$

6. $\frac{a-4b}{3c+2d}$

The weekly cost (c) of manufacturing remote controls (r) is given by the formula $c = 2000 + 3r$, where the cost is given in dollars.

7. What is the cost of producing 1000 remote controls?

8. What is the cost of producing 2000 remote controls?

9. What is the cost of producing 2500 remote controls?

Set

Topic: Solving one variable equations

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Solve each equation, justifying each step you use.

10.

$3x = 15$	Justification

11.

$x - 10 = 2$	Justification

12.

$-16 = x + 11$	Justification

13.

$6 - x = 10$	Justification

14.

$6x + 3 = 15$	Justification

15.

$3x - 10 = 2$	Justification

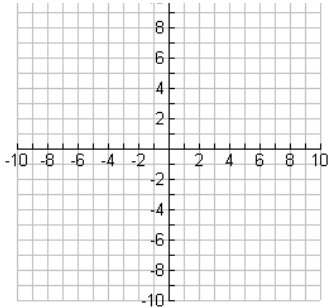


Go

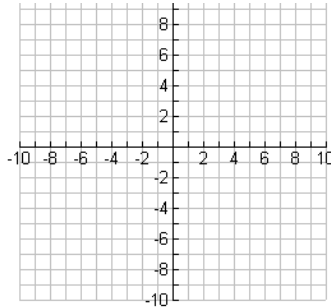
Topic: Graph linear equations

Graph the following equations on the provided coordinate axes.

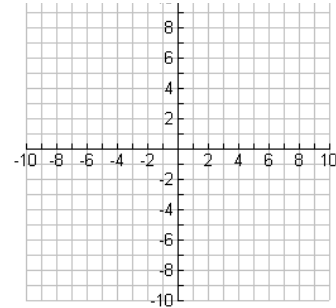
16. $y = \frac{-3}{5}x + 7$



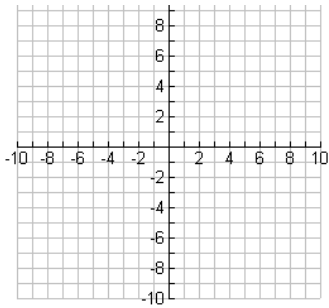
17. $y = -2x + 1$



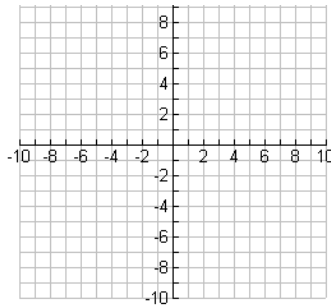
18. $y = \frac{5}{8}x + 1$



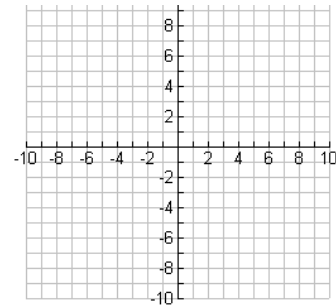
19. $y = \frac{6}{7}x$



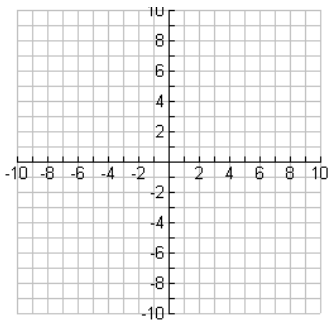
20. $y = x - 3$



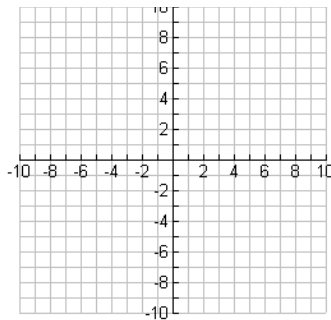
21. $y = 4x$



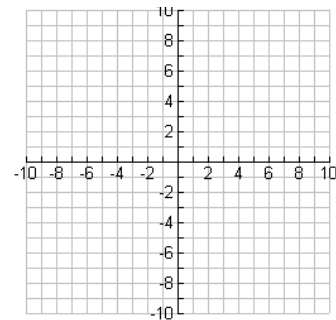
22. $y = -x - 6$



23. $y = 3x + 2$



24. $y = x$



Need Help? Online resources that may be helpful:

<http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-equations-1>

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/graphing-a-line-in-slope-intercept-form>

<http://www.youtube.com/watch?v=WXzpisUh0AU>

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